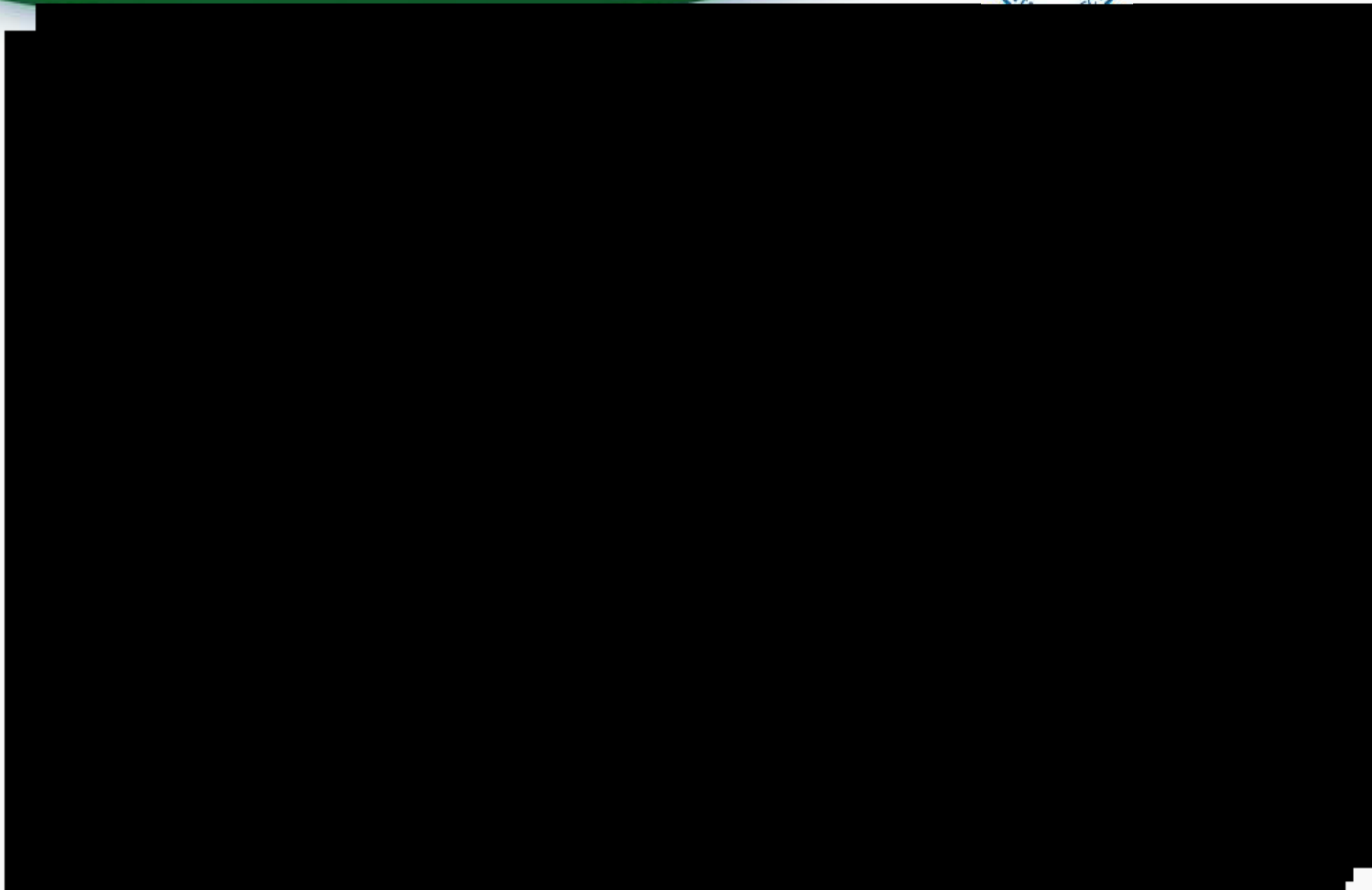


Ground Injection Control Program Overview & Current UIC Issues

Guifer Exemptions, Arroyo Grande, EL

Drinking Water Protection Section June 2018





What is a USDW?

DRY

WATERTABLE

USDW

Underground Source of Drinking Water Include: Drinkable Quality Water (<3,000 TDS) of a volume that can sustain a public water supply

And

Potential Drinking-Quality Water (3,000-10,000 TDS)

Brine - Salt Water (>10,000 TDS)

BRINE

WET - AQUIFER





Well Classes



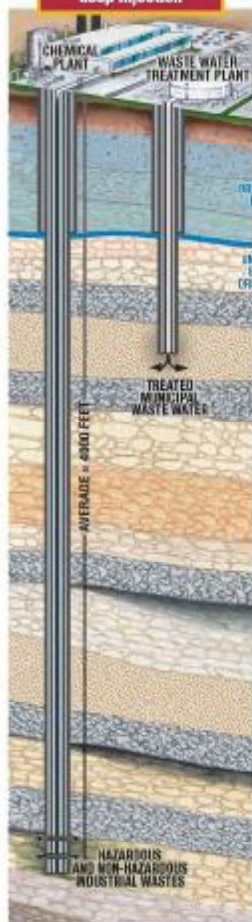
United States
Environmental Protection
Agency

Office of Water
4800B
Washington, DC 20460

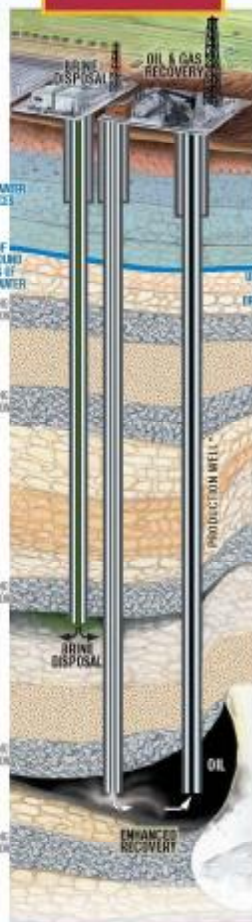
EPH-916-H-15-031
November 2010
<http://water.epa.gov/drink>

Safe Drinking Water Act Underground Injection Control (UIC) Program Protecting Public Health and Drinking Water Resources

Class I wells-
Isolate hazardous,
industrial and municipal
wastes through
deep injection



Class II wells-
Inject oil and gas
production fluids



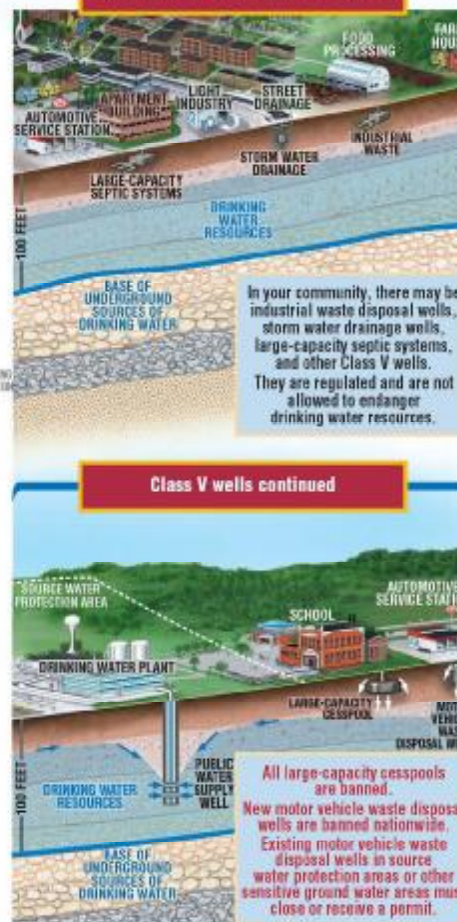
Class III wells-
Minimize
environmental impacts
from solution mining
operations



Class IV wells-
Banned under all
scenarios except as part of
authorized hazardous
waste cleanup
authorities



Class V wells-
Manage the shallow injection
of all other fluids to prevent
contamination of drinking water
resources

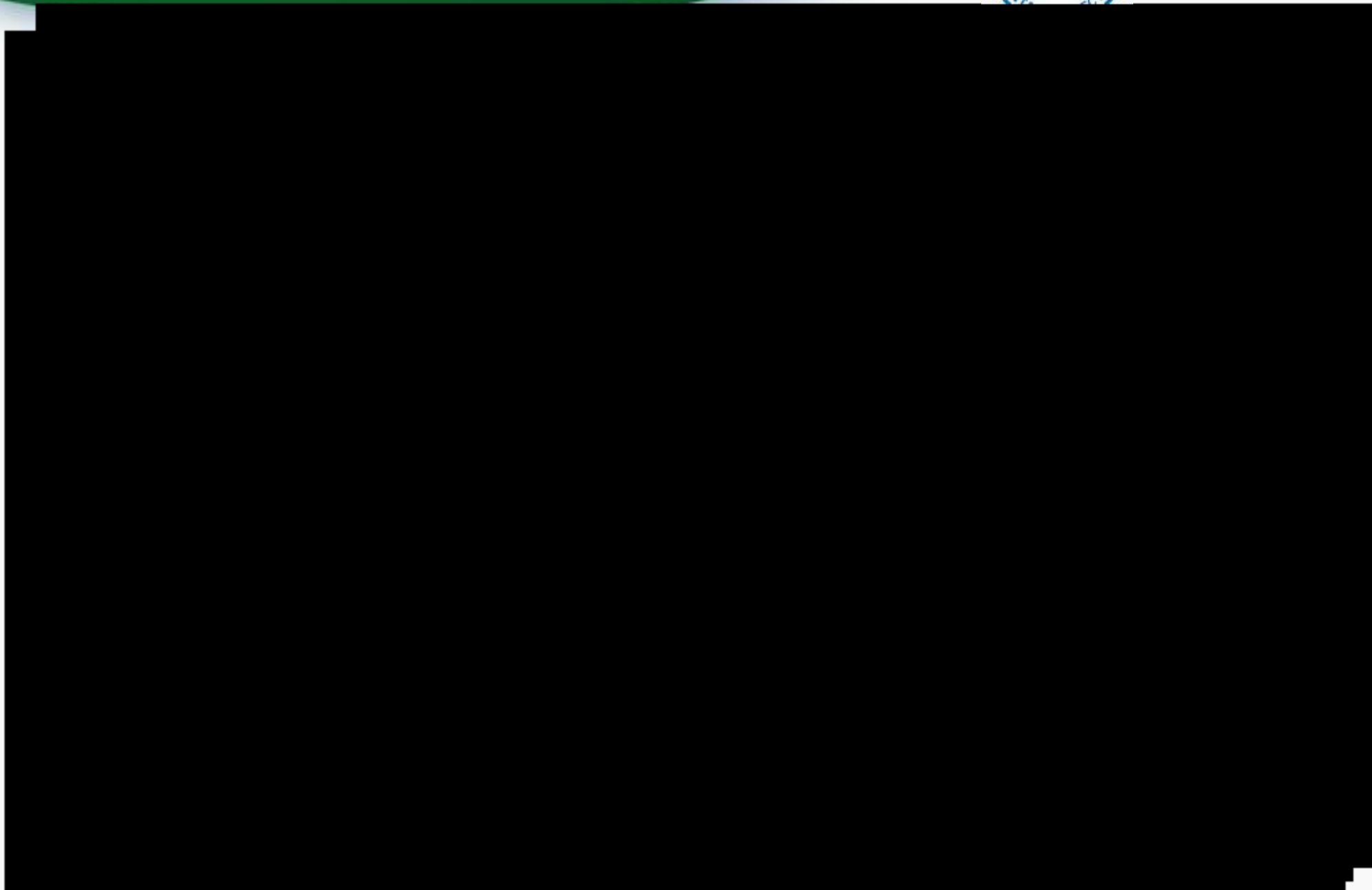


Class V wells continued

Class VI wells-
Inject CO₂ for
long-term storage to
reduce emissions
to atmosphere

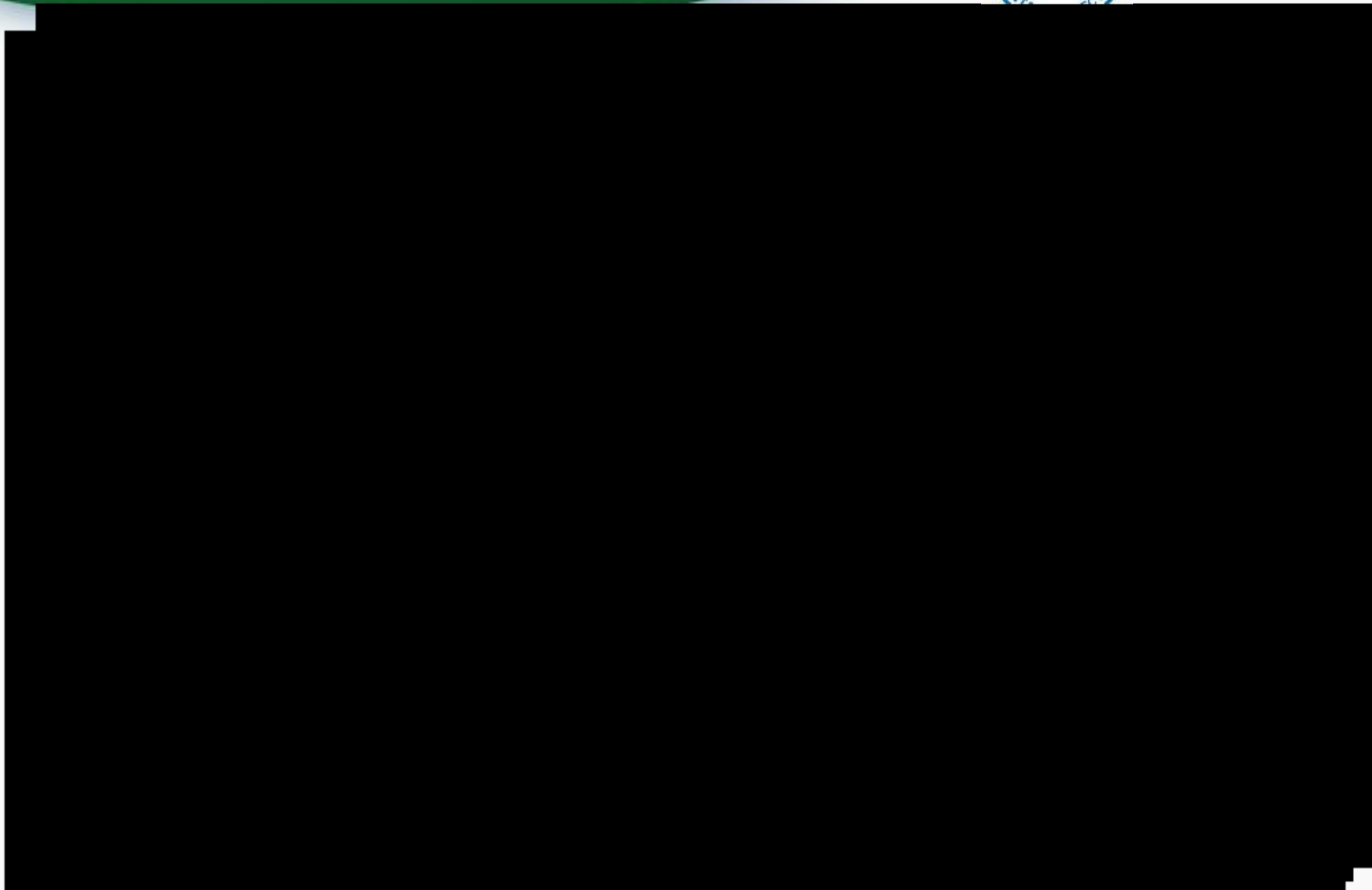


Not drawn to scale



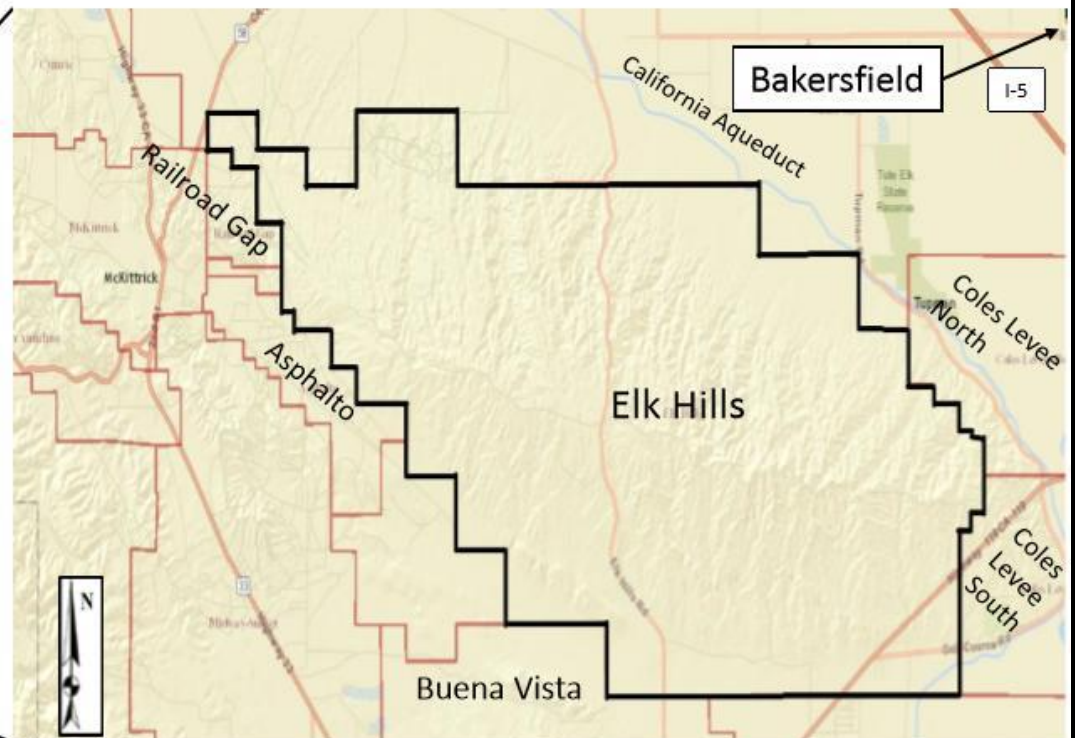
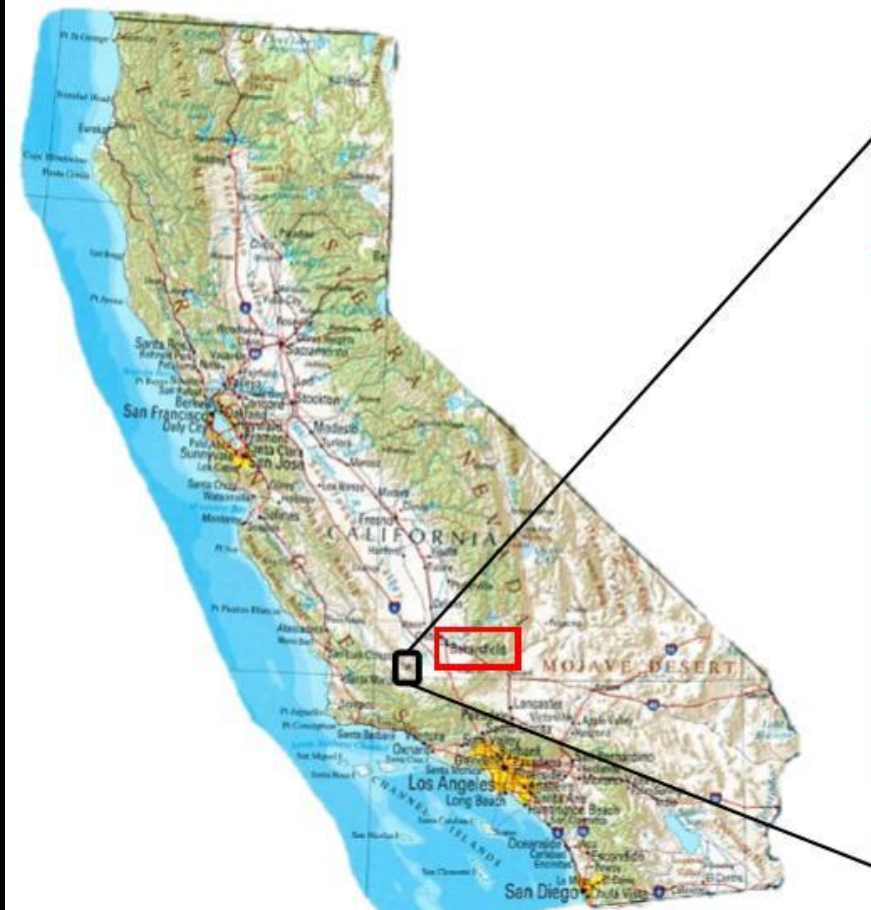


Ex. (b)(5): Internal Deliberative

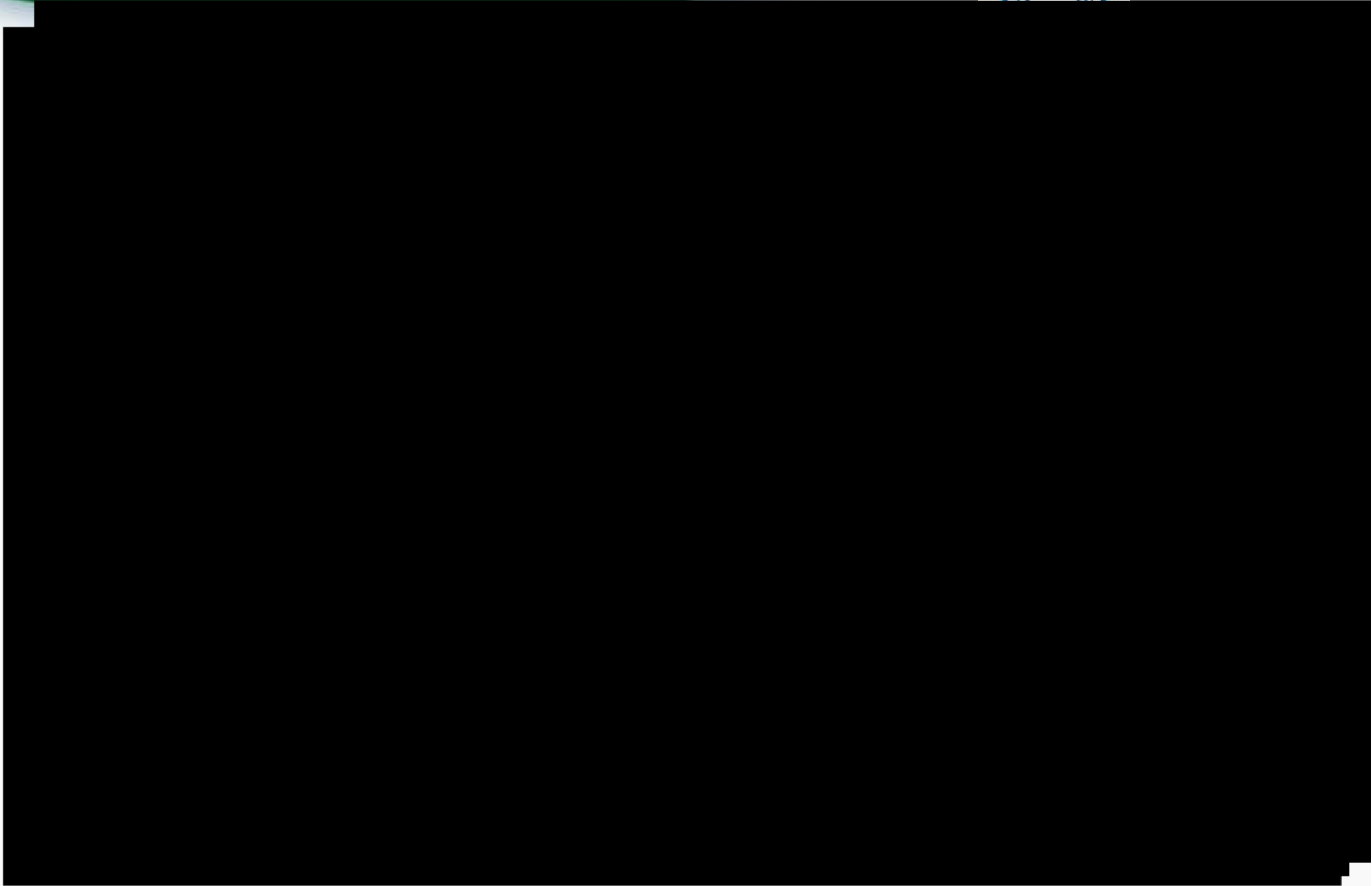




Ex. (b)(5): Internal Deliberative



Approx. 27 Miles southwest of Central Bakersfield





Ex. (b)(5): Internal Deliberative



Ex. (b)(5): Internal Deliberative